## **IN THE CLAIMS:**

Please amend the claims as follows:

Claims 1-10 (Canceled).

Claim 11 (Currently Amended): A recording medium comprising:

a first area including meandering groove tracks on which the recording information is to be recorded; and

a second area where a phase pit string corresponding to control data is arranged meanderingly,

wherein the meandering amplitude of the second area is different from the meandering amplitude of the first area,

wherein all pits forming the phase pit string have identical widths in a direction perpendicular to a meandering line formed by the phase pit string.

Claim 12 (Currently Amended): The recording medium according to claim 11, wherein[[:]] the phase pit string in the second area has a pit depth so that it enables the control data to be read and reading of other data overwritten on the phase pit string is prevented.

Claim 13 (Currently Amended): The recording medium according to claim 11, further

comprising a third area where a phase pit string corresponding to predetermined data is

arranged meanderingly,

wherein the meandering amplitude of the third area is different from at least one

of either the meandering amplitude of the first area or the meandering amplitude of the

second area,

wherein the meandering amplitude or a pit depth of the third area is different from

the meandering amplitude or a pit depth of the second area.

Claim 14 (Previously Presented): The recording medium according to claim 13, wherein

the meandering amplitude of the second area and the meandering amplitude of the third

area are set so that output levels of wobble signals extracted from the respective areas are

approximately equal to an output level of a wobble signal extracted from the first area.

Claim 15 (Previously Presented): The recording medium according to claim 13, wherein:

the third area includes pre-pits including address information representing a recording

position on the recording medium formed adjacent to the phase pit string; and the phase

pit string in the third area has a pit depth so that it enables the pre-pits to be read and

reading of other data overwritten on the phase pit string is prevented.

Claim 16 (Previously Presented): The recording medium according to claim 13, wherein

pre-pits including address information representing a recording position on the recording

medium are formed on the first area and the third area.

Claim 17 (Previously Presented): The recording medium according to claim 13, wherein

a pit depth on the third area is set so as to be equal to a depth of the groove tracks of the

first area.

Claim 18 (Previously Presented): The recording medium according to claim 13, wherein

on the first area, a depth of the groove tracks is set to not less than 20 nm and to not more

than 35 nm, on the second area, a pit depth is set to not less than 60 nm and to not more

than 90 nm, and on the third area, a pit depth is set to not less than 20 nm and to not more

than 35 nm.

Claim 19 (Previously Presented): The recording medium according to claim 18, wherein

on the first area, the depth of the groove tracks is set to 30 nm, on the second area, the pit

depth is set to 80 nm, an average duty of the pit string is set to approximately 50%, and

the meandering amplitude is set to be approximately 2.7 times as much as that of the first

area, and on the third area, the pit depth is set to 30 nm, an average duty of the pit string

is approximately 80%, and the meandering amplitude is set to be approximately 1.3 times

as much as that of the first area.

Claim 20 (Previously Presented): The recording medium according to claim 13, wherein

the meandering amplitude of the third area is set so as to be equal to the meandering

amplitude of the first area.

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Claim 21 (Previously Presented): The recording medium according to claim 13, wherein

on the first area, a depth of the groove tracks is set to 30 nm, on the second area, a pit

depth is set to 80 nm, an average duty of the pit string is set to approximately 50%, and

the meandering amplitude is set so as to be approximately 2.7 times as much as that of

the first area, and on the third area, a pit depth is set to 50 nm, an average duty of the pit

string is set to approximately 80%, and the meandering amplitude is set to be equal to

that of the first area.

Claim 22 (Currently Amended): A recording medium producing apparatus for producing

a recording medium, using a disc master, comprising:

a first area forming device which cuts groove tracks meanderingly on the disc

master using a light beam modulated by a wobble signal so as to form a first area onto

which the recording information is to be recorded; and

a second area forming device which meanderingly cuts a phase pit string

corresponding to control data on the disc master, thereby forming [a] the second area,

wherein in the second area forming device, a degree of modulation of the

light beam for cutting the phase pit string is set so that the meandering amplitude

of the second area is different from the meandering amplitude of the first area,

wherein the second area forming device cut the phase pit string so that all

pits forming the phase pit string have identical widths in a direction perpendicular

to a meandering line formed by the phase pit string.

Claim 23 (Currently Amended): The recording medium producing apparatus according

to claim 22, wherein[[:]] the second area forming device forms the second area so that the

phase pit string in the second area has a pit depth which enables the control data to be

read and prevents reading of other data overwritten on the phase pit string.

Claim 24 (Currently Amended): The recording medium producing apparatus according

to claim 22, further comprising a third area forming device which meanderingly cuts a

phase pit string corresponding to predetermined data on the disc master, thereby forming

a third area,

wherein in the third area forming device, a degree of modulation of the light beam

for cutting the phase pit string is set so that the meandering amplitude of the third area is

different from at least one of either the meandering amplitude of the first area or the

meandering amplitude of the second area,

wherein in the third area forming device, a degree of modulation of the light beam

for cutting the phase pit string is set so that the meandering amplitude or a pit depth of the

second area.

Claim 25 (Previously Presented): The recording medium producing apparatus according

to claim 24, wherein in the second area forming device and the third area forming device,

a degree of modulation of the light beam for cutting the phase pit string is set so that the

output levels of wobble signals extracted from the respective areas are approximately

equal to an output level of the wobble signal extracted from the first area at the time of

reproduction from the recording medium produced by using the disc master.

Claim 26 (Previously Presented): The recording medium producing apparatus according to claim 24, wherein the first area forming device and the third area forming device form pre-pits.

Claim 27 (Currently Amended): The recording medium producing apparatus according to claim 24, wherein [[:]]the third area forming device forms the third area so that the phase pit string in the third area has a pit depth which enables the pre-pits to be read and prevents reading of other data overwritten on the phase pit string.

Claim 28 (Currently Amended): A recording medium producing method for producing <u>a</u> [[an]] recording medium, using a disc master, comprising:

a first area forming process of cutting groove tracks meanderingly on the disc master using a light beam modulated by a wobble signal so as to form a first area onto which the recording information is to be recorded; and

a second area forming process of meanderingly cutting a phase pit string corresponding to control data on the disc master, thereby forming a second area,

wherein at the second area forming process, a degree of modulation of the light beam for cutting the phase pit string is set so that the meandering amplitude of the second area is different from the meandering amplitude of the first area.

wherein the second area forming process cuts the phase pit string so that

all pits forming the phase pit string have identical widths in a direction

perpendicular to a meandering line formed by the phase pit string.

Claim 29 (Currently Amended): The recording medium producing method according to

claim 28, wherein[[:]] at the second area forming process, the second area is so formed

that the phase pit string in the second area has a pit depth which enables the control data

to be read and prevents reading of other data overwritten on the phase pit string.

Claim 30 (Currently Amended): The recording medium producing method according to

claim 28, further comprising a third area forming process of meanderingly cutting a phase

pit string corresponding to predetermined data on the disc master, thereby forming a third

area,

wherein at the third area forming process, a degree of modulation of the light

beam for cutting the phase pit string is set so that the meandering amplitude of the third

area is different from at least one of either the meandering amplitude of the first area or

the meandering amplitude of the second area.

wherein the third area forming process, a degree of modulation of the light beam

for cutting the phase pit string is set so that the meandering amplitude or a pit depth of the

third area is different from the meandering amplitude or a pit depth of the second area.

Claim 31 (Previously Presented): The recording medium producing method according to

claim 30, wherein at the second area forming process and the third area forming process,

a degree of modulation of the light beam for cutting the phase pit string is set so that the

output levels of wobble signals extracted from the respective areas are approximately

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equal to an output level of the wobble signal extracted from the first area at the time of

reproduction from the recording medium produced by using the disc master.

Claim 32 (Previously Presented): The recording medium producing method according to

claim 30, wherein at the first area forming process and the third area forming process pre-

pits are formed.

Claim 33 (Currently Amended): The recording medium producing method according to

claim 30, wherein[[:]] at the third area forming process the third area is so formed that the

phase pit string in the third area has a pit depth which enables the pre-pits to be read and

prevents reading of other data overwritten on the phase pit string.

Claim 34 (Currently Amended): An information recording apparatus which records

information onto the recording medium comprising:

a first area including meandering groove tracks on which the information is to be

recorded, and a second area where a phase pit string corresponding to control data is

arranged meanderingly,

wherein the meandering amplitude of the second area is different from the

meandering amplitude of the first area,

wherein all pits forming the phase pit string have identical widths in a direction

perpendicular to a meandering line formed by the phase pit string, and

wherein the apparatus extracts the wobble signal from a signal from the groove

tracks and controls recording operation based on the wobble signal.

Claim 35 (New): The recording medium according to claim 11, wherein the phase pit

string in the second area has a pit depth different from a depth of each track of the

meandering groove tracks in the first area.

Claim 36 (New): The recording medium producing method according to claim 28,

wherein the second area forming process forms the second area so that the phase pit

string in the second area has a pit depth different from a depth of each track of the

meandering groove tracks in the first area.

Claim 37 (New): The information recording apparatus according to claim 34, wherein

the phase pit string in the second area has a pit depth different from a depth of each track

of the meandering groove tracks in the first area.